Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 03-F-076PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No. PCT/JP2003/011914	International filing date (day/ 18 September 2003 (18						
International Patent Classification (IPC) or n B82B 3/00, H01L 21/285	<u> </u>						
Applicant NATIONAL INSTITUTE FOR MATERIALS SCIENCE							
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
 This REPORT consists of a total of sheets, including this cover sheet. This report is also accompanied by ANNEXES, comprising: 							
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications relating to the following items:							
1 =							
	Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	of invention	novoity, milenaire only and manner approved.					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain docu							
Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date of submission of the demand	Date	of completion of this report					
29 March 2004 (29.0)	3.2004)	17 December 2004 (17.12.2004)					
Name and mailing address of the IPEA/JF	Aut	orized officer					
Facsimile No.	Tele	phone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/011914

Box No.	I	Basis of the report				
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 						
	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:					
		international search (under Rules 12.3 and 23.1(b))				
		publication of the international application (under Rule 12.4)				
		international preliminary examination (under Rules 55.2 and/or 55.3)				
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jurnis	inea to	to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" annexed to this report):				
\bowtie	The in	nternational application as originally filed/furnished				
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3	The a	mendments have resulted in the cancellation of:				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
4.	made	report has been established as if (some of) the amendments annexed to this report and listed below had not been since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box 70.2(c)). the description, pages				
	一	the claims, Nos.				
	Ħ	the drawings, sheets/figs				
	Ħ	the sequence listing (specify):				
	H	any table(s) related to sequence listing (specify):				
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* If iten	n 4 ap _i	plies, some or all of those sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP03/11914

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims	1, 2	YES	
	Claims		NO	
Inventive step (IS)	Claims		YES	
	Claims	1, 2	NO	
Industrial applicability (IA)	Claims	1, 2	YES	
	Claims		NO	

2. Citations and explanations (Rule 70.7)

Document 1: JP, 7-65705, A (Canon Inc.), 10 March, 1995 (10.03.95)

Claim 1

The subject matter of claim 1 does not appear to involve an inventive step in view of document 1 cited in the ISR.

Document 1 discloses that "fine particles" are formed "on an insulator by letting the tip of a probe of a scanning tunneling microscope leave" ([0044]). Furthermore, for letting the atoms of the said tip leave, voltage pulses are used ([0046]). Moreover, as the material of the said fine particles, silver is stated ([0059]). It is considered to be obvious for a person skilled in the art to select silver as the material of the said probe when fine particles of silver are formed.

Furthermore, it is stated that "as the materials of, for example, the substrate, a wide range of materials can be used without any limitation" ([0057]). So, a person skilled in the art could have easily formed fine particles of silver on a semiconductor substrate by the method described in document 1.

Claim 2

The subject matter of claim 2 does not appear to involve an inventive step in view of document 1.

A person skilled in the art could have, as required, set the conditions of voltage pulses in the fine silver particle production method described in document 1.